

### **AMENDMENTS TO THE CLAIMS**

The following listing replaces all prior versions of the claims:

1. (Currently amended) A method for recording microscopic images with high optical resolution of particles or organisms suspended in a liquid contained in a flow cuvette, comprising introducing the suspension into a flow cuvette, and recording the image of the suspension by an optical sensor, wherein the optical sensor and flow cuvette are moving relative to one another while the contents of the flow cuvette are imaged; and said sensor is moving along the flow cuvette.
- 2-4. (Canceled)
5. (Previously presented) The method according to claim 1 further comprising allowing the particles to sink onto the ground of flow cuvette or into a region above the ground, wherein only part of the flow cuvette contains the particles or organisms to be examined, imaging the ground or the region above with a high optical resolution, and covering the ground or the region above by the optical sensor.
6. (Previously presented) The method according to claim 1 further comprising allowing the particles to rise to an upper limiting surface of the flow cuvette or into a region below the upper limiting surface, wherein only part of the flow cuvette contains the particles or organisms to be examined, imaging the upper limiting surface or the region below with a high optical resolution, and covering the upper limiting surface or the region below by the optical sensor.
7. (Previously presented) The method according to claim 5, wherein said sinking or rising of the objects within the flow cuvette can be effected by one or more of the following: biological techniques, physical techniques, chemical techniques, sedimentation, and buoyancy.